DEC STD 131-1 Controlled Components

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ABSTRACT: This standard defines the meaning of controlled components and provides a listing of common controlled components.

APPLICABILITY: This standard is mandatory for those employees responsible for defining, documenting, and implementing a process for ensuring regulatory agency requirements.

STATUS: APPROVED 21-JUN-1991; use VTX SMC for current status.

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Responsible Department:	Corporate Product Safety and Regulations
Responsible Person:	Michael Neuffer
SMC Writer:	John Burkhardt

APPROVAL: This document has been reviewed and recommended for approval by the General Review group for its category and the DEC STD 131-1 Advisory Committee.

Michael Neuffer - Corporate Product Safety and Regulations

Eric Williams - Standards Process Manager

Direct requests for further information to:

Michael Neuffer
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1 INTRODUCTION

This document clarifies the definition of the term controlled components.

Changes to these components could require another submittal of products to appropriate agencies.

2 RESPONSIBILITIES

The design engineer is responsible for identifying safety-controlled components and for working with component engineering to obtain necessary certification.

The component engineer is responsible for specifying components from the Controlled Components List in adherence to required agency approvals.

The product safety engineer (PSE) has the responsibility to document the Controlled Components List for each product. The PSE shall note in the Controlled Components List if changing a controlled component or using an alternate vendor requires additional testing.

NOTE

The Controlled Components List document can be in the form of the Bill of Materials (BOM) with the controlled components highlighted on a separate addendum to the Engineering Product Safety Report.

Component Engineering shall notify the PSE and the Plant Product Safety and Regulations Coordinator (PPSRC) of any changes or additions to the Qualified Vendor List (QVL) if it impacts the Controlled Components List.

Purchasing shall obtain authorization from the PPSRC prior to changing sourcing of controlled components, even within the QVL.

It is the responsibility of the Plant PSRC to disallow the application of agency labels to products that do not conform to the original or amended submittal configuration.

The Plant PSRC shall be responsible to activate the product hold procedure if he or she detects products that are nonconforming to the original or amended submittal configuration. This nonconformance would invalidate the license granted by the approving agencies.

3 DEFINITION OF CONTROLLED COMPONENT

Controlled components are components that cannot be changed without reevaluation or retest of their safety characteristics and are used in ac primary circuits (up to 600V) or parts exposed to 42.4 Vdc or 30 Vac at 8 amperes. Not all primary components require control; examples are, resistors, some capacitors and some plastics that measure less than 2 centimeters and do not require flammability testing. Refer to *DEC STD 119-0 Digital Product Safety - Introduction and General Requirements.*

The Product Engineers have the responsibility to monitor product Engineering Change Order (ECO) activity for changes to the Controlled Components List that may affect products in their plant.

The following list of controlled components is not all inclusive.

- Components used in primary circuitry (up to 600 V)
- Thermoplastics and thermoget materials
  - — All plastic materials must be UL recognized
  - — Plastic enclosures
  - — Air filters
  - — Plastic-molded components
- Relays (except less than 42.2 V peak)
- Fan assemblies
- Motors and blowers
- Fuses
- Fuse holders
- Elapsed time meter
- Power supply unit
- PC board laminates
- Line filter inlet with or without receptacles
- Switches, power and interlock, except less than 42.4 V peak
- Interlock switches
- Power cords and power supplies
- AC plugs
- AC receptacles
- Circuit breakers
- Power and isolating transformers and direct plug-ins
- OEM procured equipment that contain any controlled components
- Strain relief
- Cathode ray tube
- Subcontracted assemblies and subassemblies that contain any controlled components
- Fiber optic cable
- Connectors (except less than 42.4 V peak)
- Air filters
- Varistors (except less than 42.4 V peak)
- Capacitors (except less than 42.4 V peak)
- Batteries containing lead, cadmium, or mercury
- Wiring harnesses
- Agency-required labels and data contained within
- Lasers

- Optoisolators
- Regulators and main switching devices (in power supplies)
- Fusible resistors
- All components and subassemblies that are listed on the critical features listing for Government System Group (GSG) products.

APPENDIX A REFERENCED DOCUMENTS

A.1 EL-Class Digital Documents

EL-Class Number	Document Title
EL-00119-00	*DEC STD 119-0 Digital Product Safety - Introduction and General Requirements*

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